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09/533,148	03/23/2000	Eddie Huey Chiun Lin	99-313	1189

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EXAMINER

BARQADLE, YASIN M

ART UNIT PAPER NUMBER

2153

DATE MAILED: 05/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/533,148

Applicant(s)

LIN, EDDIE HUEY CHIUN

Examiner

Yasin M. Barqadle

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 05 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

**Response to Amendment**

1. The amendment filed on November 05, 2004 has been fully considered but are moot in view of the new ground(s) of rejection.
2. Claims 1-25 are presented for examination.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kracht USPN (6377987) in view of Feldmann US. Pub No. (20020021675 A1).

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As per claim 1-2 and 14, Kracht teaches a method for analyzing a data network having a plurality of routers (fig. 7-8) comprising (abstract):

accessing at least a routing information [routing tables are examined (accessed) col. 11, lines 49-56 and col. 14, lines 9-16];

determining if particular network prefix is included in the accessed information [routing table entries show specific IP address of a router, determining from a set of network address (network prefix) the identity of devices that are associated with the set of network addresses col. 11, lines 49-56; col. 16, lines 13-17];

determining an identity of a network device based on an identity included in the accessed information corresponding to the network prefix [identity of a device is determined based on collected and examined configuration information (col. 11, lines 49-56; col. 16, lines 13-17 and col. 17, lines 16-32]; and

analyzing the data network using the determined identity [actual physical network topology of a data network is examined based on layer 2 and layer 3 configuration information that is gathered from of a group of network devices within the network abstract and col.4, lines 1-31].

Although Kracht shows substantial features of the claimed invention, he does not explicitly show a static route information and open shortest path first route summarization information.

Nonetheless, this feature is well known in the art and would have been an obvious modification of the system disclosed by Kracht, as evidenced by Feldmann U.S. Pub No. (20020021675 A1).

In analogous art, Feldmann whose invention is about of analyzing data network by extracting relevant information from a collection of router configuration files, disclose a static route information, open shortest path first route summarization information and BGP route information (routers combine the information from intradomain routing protocols (OSPF, IS-IS) with the interdomain reachability information from (static routes and BGP) to construct a forwarding table. FIG. 5 also shows a "router" section with entries for the various protocols, such as OSPF, BGP, and Static routes) page 3, Paragraphs 0030-36 and Paragraphs 51]. Giving the teaching of Kracht, a person of ordinary skill in the art would have readily recognized the desirability and the advantage of modifying Kracht by employing the system of Feldmann because it provides

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reachability information about network devices and to facilitate how to direct traffic toward remote end points.

As per claim 3 and 16, Feldmann teach a method wherein determining includes:

determining router information, interface information, and association information for the networks prefix [Fig. 1, page 2, Paragraphs 0024-36].

As per claim 4 and 17, Feldmann as modified teach the method wherein analyzing includes:

analyzing traffic of data network [page 2, Paragraphs 0022-0028].

As per claim 5 and 18, Feldmann teach the method wherein analyzing includes:

modeling the data network [page 2, Paragraphs 0022-0024].

As per claim 6 and 19, Feldmann teach the method wherein the determining includes:

determining an identity of an exit or entry router in the data network [page 2, paragraphs 0024 to page 3, Paragraphs 0031. See also page 4, paragraph 0039].

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As per claim 7, this is a means claim with similar limitations as claims 1-2 and 14 addressed above. Therefore, it is rejected with the same rationale.

As per claim 8-9, Kracht, teaches the inventions as explained in claims 1-2 and 14. Kracht further teaches a memory and a processor (fig. 10, 1006 and 1004. see col. 15, lines 47-64 and col. 17, lines 35-52)

As per claim 10, Feldmann as modified teach a system wherein, when determining, the processor is configured to:

determining router information, interface information, and association information for the networks prefix [Fig. 1, page 2, Paragraphs 0024-31].

As per claim 11, Feldmann as modified teach a system wherein, when analyzing, the processor is configured to:

analyze traffic of the data network using the determined identity [page 2, Paragraphs 0022-0024].

As per claim 12, Feldmann as modified teach a system wherein, when analyzing, the processor is configured to:

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model the data network using the determined identity [page 2, Paragraphs 0022].

As per claim 13, Feldmann teach a system wherein, when determining, the processor is configured to:

determine an identity of an exit or entry router in the data network [page 2, paragraphs 0024 to page 3, Paragraphs 0031. See also page 4, paragraph 0039].

As per claim 20 and 24, these claims include similar limitations as claims 1-2 and 14 addressed above. Therefore, it is rejected with the same rationale.

Feldmann further teaches a border gateway protocol peering table, a static route table, an open shortest path first route summarization table, and a network topology table [Fig. 2 and 4-5, page 1, paragraphs 0010 and page 3, Paragraphs 0031-36 and 51].

As per claim 21, Feldmann teach a method wherein the determining an identity includes:

determining router information, interface information, and association information [Fig. 1, page 2, Paragraphs 0024-31. See also page 4, paragraph 0039 and page 5, paragraphs 0048-0051].



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As per claim 22, this claim includes similar limitations as claim 8 and 20. therefore, it is rejected with the same rationale.

As per claim 23, Feldmann teach a system wherein, when determining an identity, the processor is configured to:

determine router information, interface information, and association information [Fig. 1, page 2, Paragraphs 0022-34].

As per claim 25, Feldmann teach the computer-readable medium of claim 24 wherein the determining an identity includes:

determining router information, interface information, and association information [Fig. 1, page 2, Paragraphs 0024-36].

### **Conclusion**

The prior made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Yasin Barqadle

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KRISNA LIM  
PRIMARY EXAMINER